



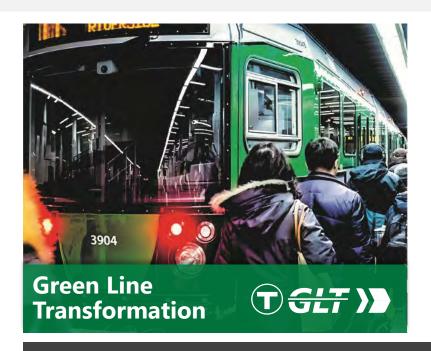
Green Line Transformation (GLT) Program Update

Angel Peña, Chief of Capital Transformation April 28, 2022

Capital Transformation | A Holistic Approach



Our transformation program uses an activist management approach to holistically deliver a portfolio of projects that will measurably improve the quality of service for riders. We achieve this by finding synergy and efficiency through strategic sequencing of activities, amplifying the impact of construction windows.







Green Line Transformation | Program Goal





Green Line Transformation | Program Levels

Level 0

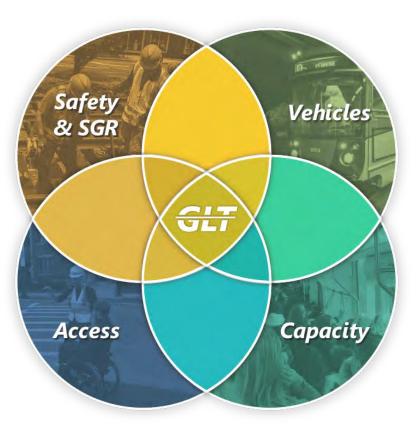
Improved Safety and State of Good Repair

- Minimize risk of service disruptions
- Reduce speed restrictions
- Bring assets to state of good repair

Level 1

Enhanced Accessibility

- New or upgraded platforms
- Compliant height, width & slope
- Barrier-free pathways & wayfinding
- Detectable warning panels



Level 2

Replacement of Legacy Fleets

Operate and maintain single Type 10s

- More efficient Operations & Maintenance
- 100% of Green Line trains accessible
- More equitable across the Green Line

Level 3

Increased Passenger Capacity

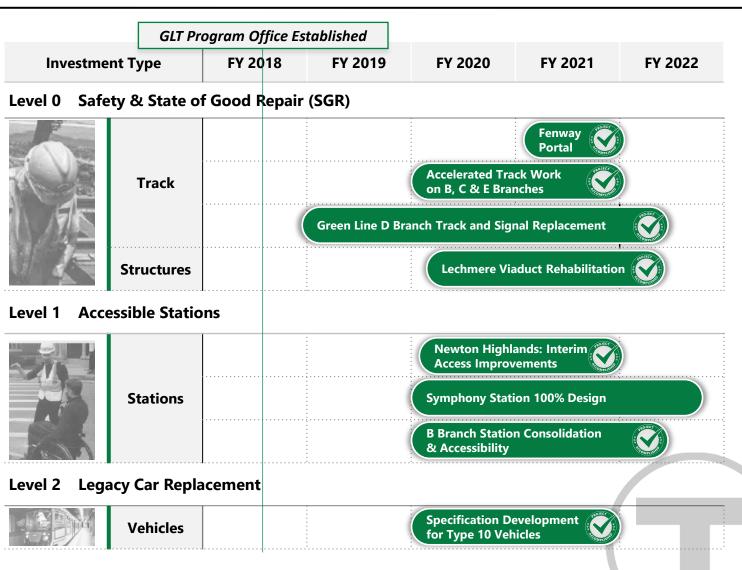
Additional vehicles and infrastructure for two-car Type 10 operation

- Increase core capacity of subway
- Reduce headways and journey time
- Optimize yards and facilities



Green Line Transformation | Achievements to Date





Level 0 | Improved Safety and State of Good Repair

Upcoming Construction



Green Line Train Protection
System: Vehicle & Signal
System Upgrades



Track and Intersection Upgrades

Advancing Design



Copley to Arlington Track Replacement



Central Tunnel

Level 1 | Enhanced Accessibility

Design Underway



D Branch Station Accessibility Improvements



Symphony Station Accessibility Improvements



Newton Highlands
Station Accessibility
Improvements



B & C Branch Shortterm Accessibility Improvements



Hynes Station Accessibility Improvements

Level 2 | Replacement of Legacy Fleets

Before the arrival of new vehicles, key infrastructure upgrades are required.

The procurement of the **Type 10 Supercar**, will allow retirement of the existing legacy fleets, much of which are beyond their design life, with inaccessible doors.

Preliminary Design Underway



Vehicle Maintenance Facility Modifications



Lake St Carhouse & Yard



Reservoir Carhouse & Yard



Riverside Carhouse & Yard



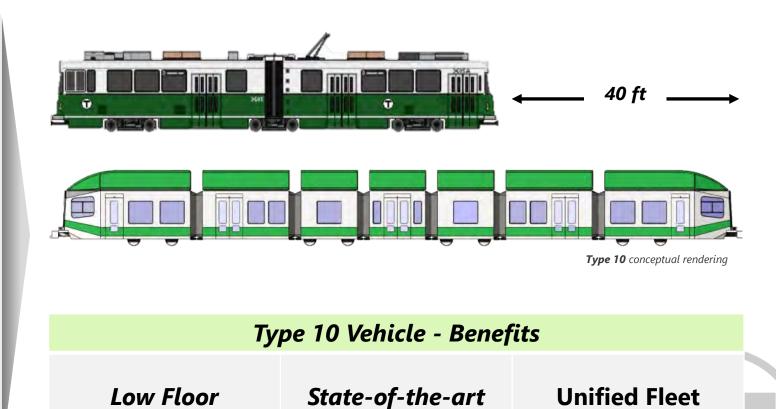
GLX Carhouse & Yard

Level 2 | Type 10 Timeline

	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
Type 10 Vehicle	Procurement		Design			Pilot				Clos	Close-Out & Warranty	
							Vehicle Rollout (2/month)					

- ✓ Base contract to 102 cars to allow operation of single supercars
- ✓ Options were increased to retain the maximum potential fleet size
- ✓ Vendor bid proposals were received
- ✓ Technical Evaluations Complete





Level 3 | Increase Capacity

A key benefit to the Type 10 is being able to increase capacity. This is possible with operating them as two-car trains which requires:

- Ensuring platforms are 225 feet long
- Traction power upgrades
- Yards capable of storing enough vehicles to support Peak Service

FTA Core Capacity Grant Program Eligibility with 10% increase

Letter of Intent Project Development (30% design)

Project Engineering

Construction

The Core Capacity Grant program would leverage FTA guidance and maximize potential funding eligibility

- ✓ Letter Requesting Entry has been submitted and accepted
- ☐ FTA Review & Response (45 days)



Green Line Transformation | Measurable Outcomes

Improved Safety & State of Good Repair

Level 0

- Risk of train-to train
 collisions minimized
- Risk of train derailments minimized
- 100% of stations upgraded to meet emergency egress standards

Enhanced Accessibility

Level 1

- Accessible stations
 across entire Green Line
- Passenger circulation improved at all surface stations
- Score of 90 or better
 Plan for Accessible
 Transportation
 Infrastructure (PATI)

Replacement of Legacy Fleets

Level 2

- 100% of Green Line trains accessible
- Improved Customer
 Experience with stateof-the-art technology
- Increased reliability for revenue service

Increased Passenger Capacity

Level 3

- Increased passenger capacity
- Reduced dwell time at stations for passenger boarding
- Improved **on-time performance**

Green Line Transformation | Diverse Team Behind GLT



Draft for Discussion & Policy Purposes Only

Connecting with Communities





























